

WHAT IS CLAIMED IS:

1. A filter having a filter portion, comprising:
a plurality of bag-like members formed in a container shape having an opening and disposed with intervals therebetween in the filter portion; and
a supporting member which supports a periphery of the opening of the bag-like members and interconnects each of the bag-like members.
2. The filter according to claim 1, wherein the bag-like members are formed such that a centerline thereof is orthogonal to the opening and a section parallel to the opening is circular or polygonal in shape.
3. The filter according to claim 1, wherein the supporting member has, on a plane surface of the supporting member, a plurality of straight portions that traverse the supporting member without interfering with any of the bag-like members with each straight portion intersecting with the other straight portions in at least one place each.
4. The filter according to claim 1, wherein the bag-like members are formed such that a center line thereof is orthogonal to the opening and a section parallel to the opening is circular or polygonal in shape and the supporting member has, on a plane surface of the supporting member, a plurality of straight portions that traverse the supporting member without interfering with any of the bag-like members with each straight portion intersecting with the other straight portions in at least one place each.
5. The filter according to claim 1, wherein a through-hole is formed in the supporting member at a location where the bag-like members are connected.
6. The filter according to claim 5, wherein the bag-like members are connected to the through-hole of the supporting member.
7. The filter according to claim 1, wherein the periphery of the supporting member is used as a flange portion and a portion other than the periphery of the supporting member is used as the filter portion.
8. The filter according to claim 1, wherein the bag-like members are made of non-woven fabric.
9. The filter according to claim 1, wherein the bag-like members are in a tapered cylindrical shape.
10. The filter according to claim 1, wherein a tip of the bag-like members are covered with a disk-cap.
11. A filter having a filter portion, comprising:
a flat plate member; and

a plurality of bag-like members connected to the flat plate member, wherein each of the plurality of bag-like members have an opening disposed with intervals therebetween, with the flat plate member supporting a periphery of the opening of the bag-like members and interconnecting each of the bag-like members.

12. The filter according to claim 11, wherein the bag-like members are formed such that a center line thereof is orthogonal to the opening and a section parallel to the opening is circular or polygonal in shape.

13. The filter according to claim 11, wherein the flat plate member has, on a plane surface of the flat plate member, a plurality of straight portions that traverse the flat plate member without interfering with any of the bag-like members with each straight portion intersecting with the other straight portions in at least one place each.

14. The filter according to claim 11, wherein the bag-like members are formed such that a center line thereof is orthogonal to the opening and a section parallel to the opening is circular or polygonal in shape and the flat plate member has, on a plane surface of the flat plate member, a plurality of straight portions that traverse the flat plate member without interfering with any of the bag-like members with each straight portion intersecting with the other straight portions in at least one place each.

15. A manufacturing method of a filter having a filter portion with a plurality of bag-like members formed in a container shape having an opening that is disposed with intervals therebetween in the filter portion and a supporting member which supports a periphery of the opening of the bag-like members and connects each of the bag-like members, comprising:

preparing a forming die provided with a forming surface which is formed in a shape corresponding to that of one side of the filter; and
laminating fibers over the forming surface of the forming die.

16. The method according to claim 15, wherein the forming die is made of permeable meshed metal.

17. The method according to claim 15, wherein the fibers are semi-molten when laminated over the forming surface of the die.

18. The method according to claim 15, further comprising moving the forming die at a constant speed with respect to a nozzle during the laminating step.

19. The method according to claim 15, wherein the fibers are laminated using a melt-blow method.

20. The method according to claim 15, wherein the fibers are laminated at a constant thickness over the forming die.